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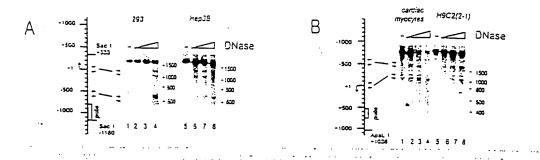
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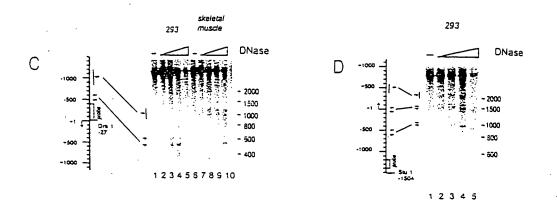
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Figure 1





<u>. </u>	cells	accessible regions				
	HEK 293		÷	÷	÷	
	Hep38	÷	*	÷		
	skeletzi musde	+	` +	÷	→ ·	•
	H9c2(2-1)		÷	÷		
	cardiac myocyte		÷	÷	→ *	
	•	<u> </u>	766	-	3867	
		HRE	1	SPI	SPil	
		-10C0 _	-5CO	AP-2 -1	-5C0	-1000

Sequence conservation:

Sray: inclinical bases
black, five-mer plocks

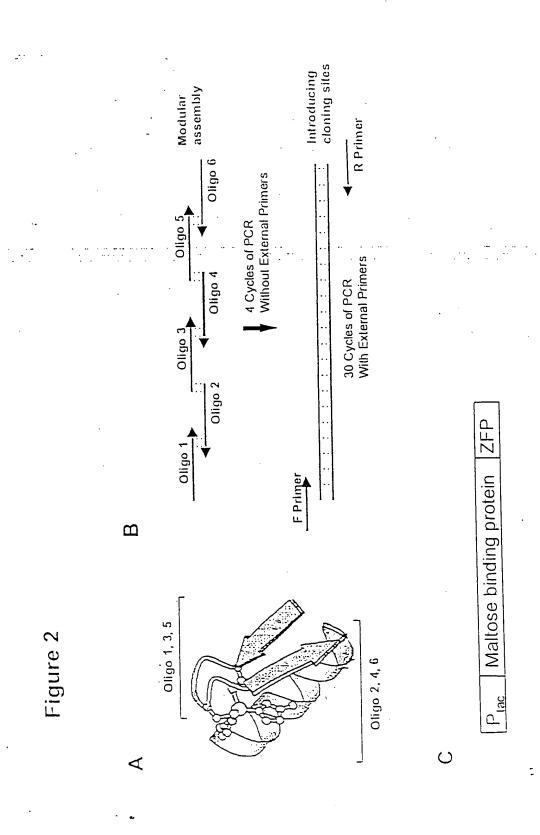
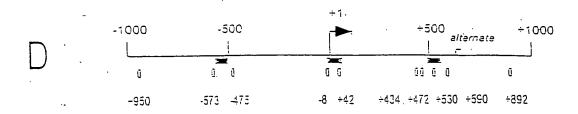
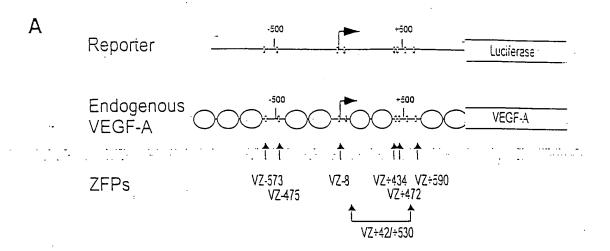


Figure 2



- Figure 3



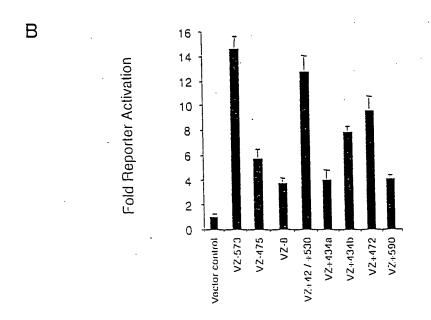
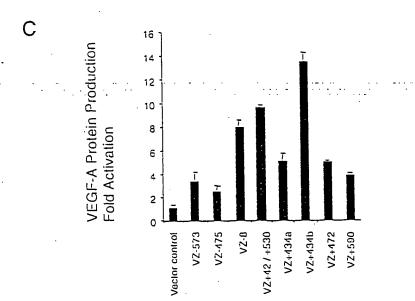


Figure 3



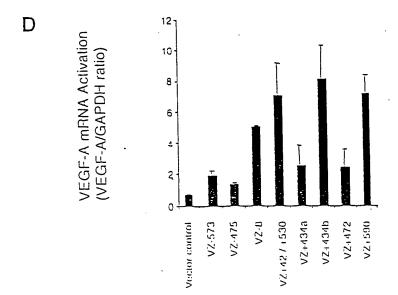
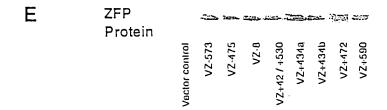


Figure 3



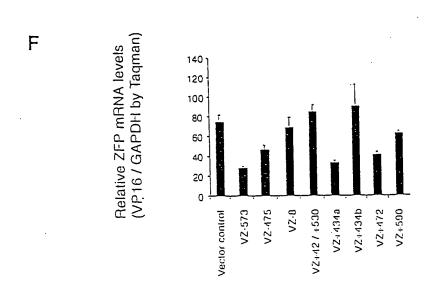
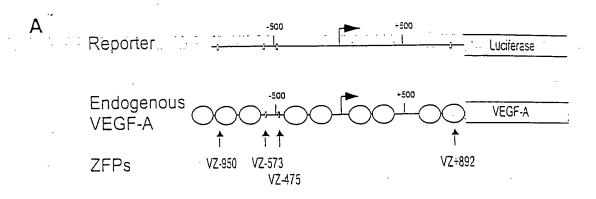


Figure 4



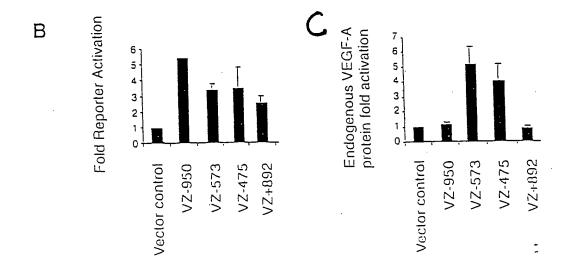


Figure 5

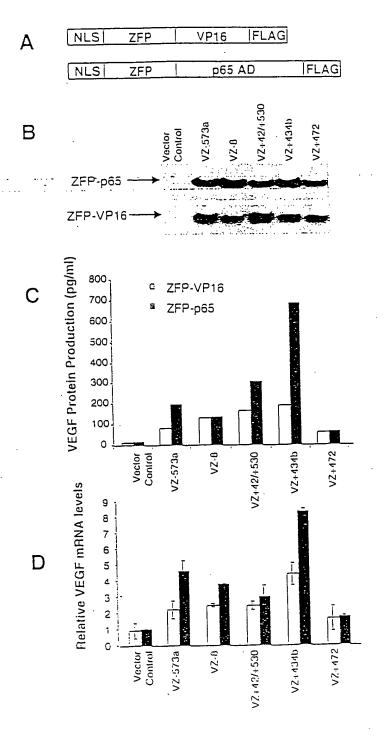


Figure 6

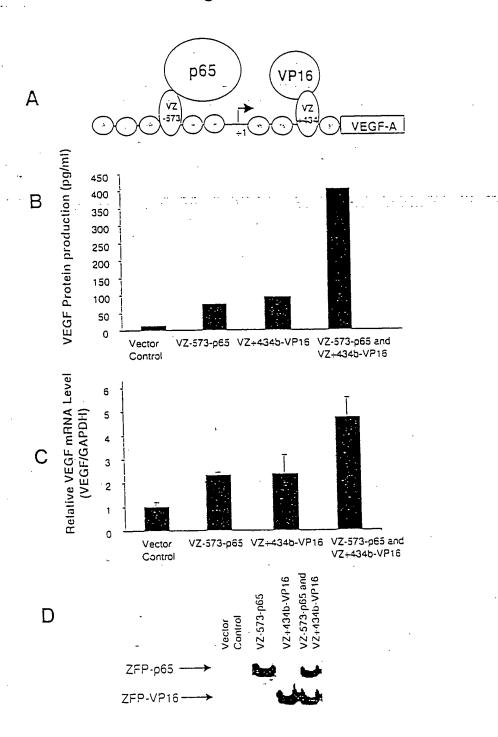
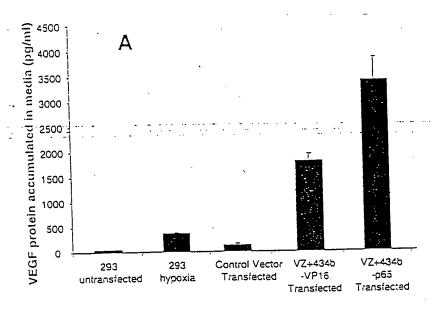


Figure 7



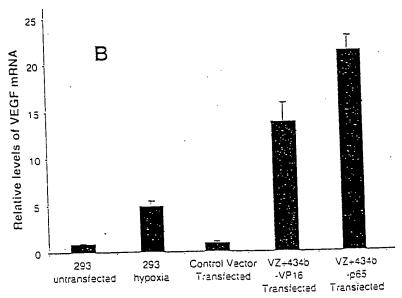
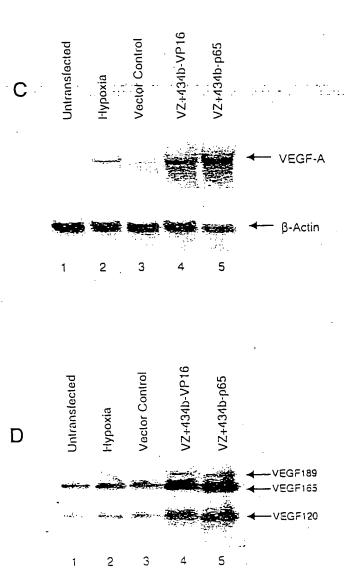


Figure 7



+ZFP Control

Dimer

Monomer

FIG. 8

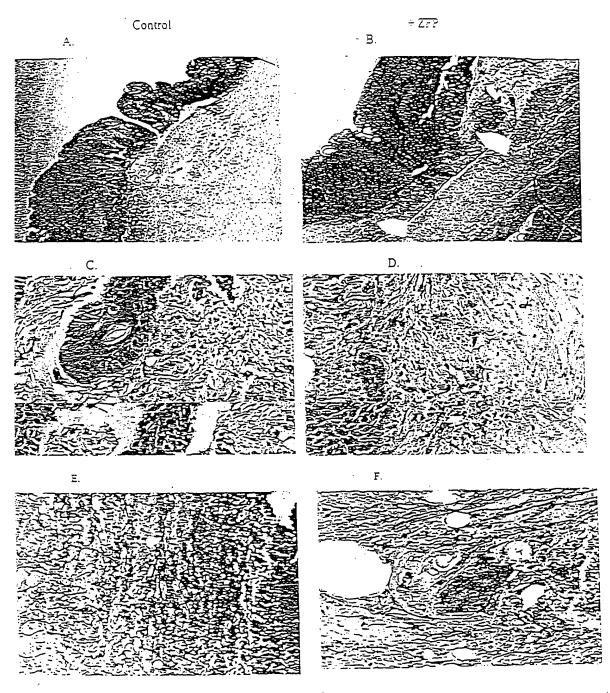
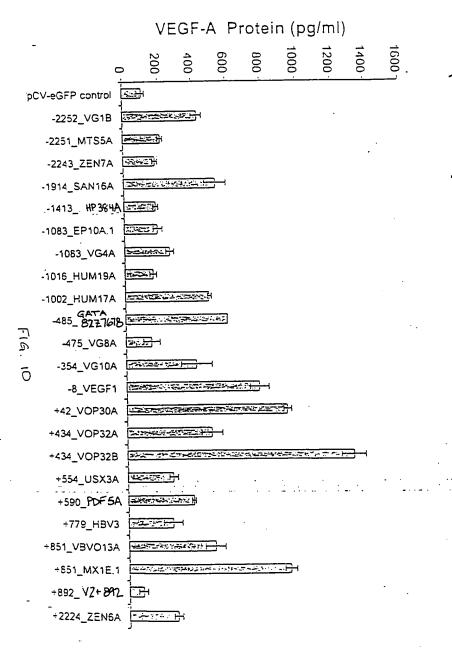
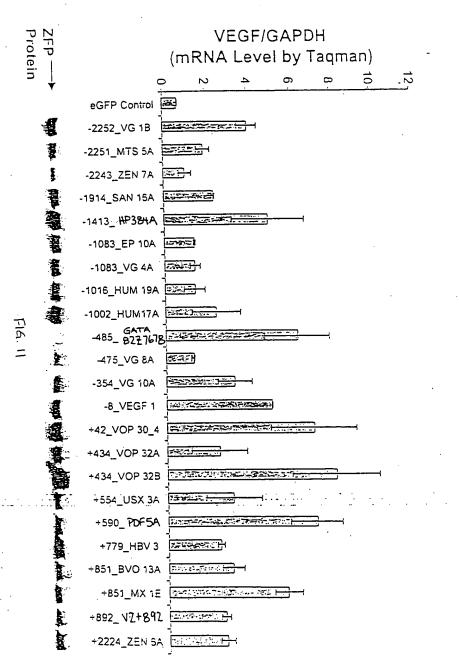


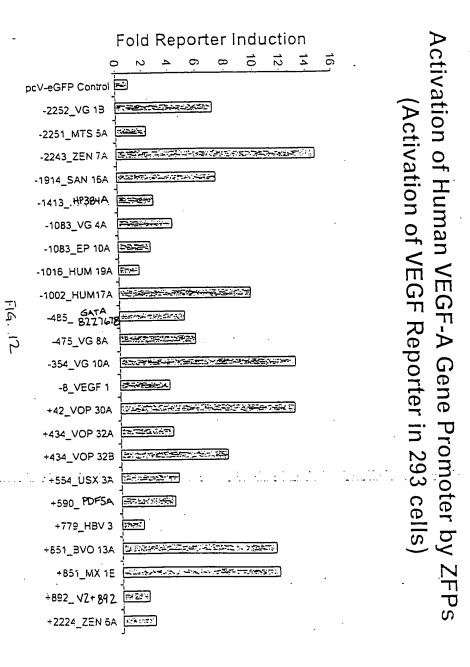
FIG. 9



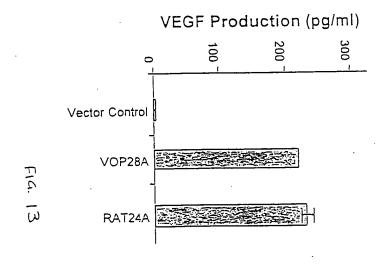
Activation of Human VEGF-A Gene By ZFPs in 293 Cells (VEGF-A protein production detected by ELISA)



VEGF-A mRNA Detected by Taqman Analysis) Activation of Human VEGF-A Gene by ZFPs



VEGF Activation By ZFP VOP28A and RAT24A in 293 Cells (VEGF protein detected by ELISA)



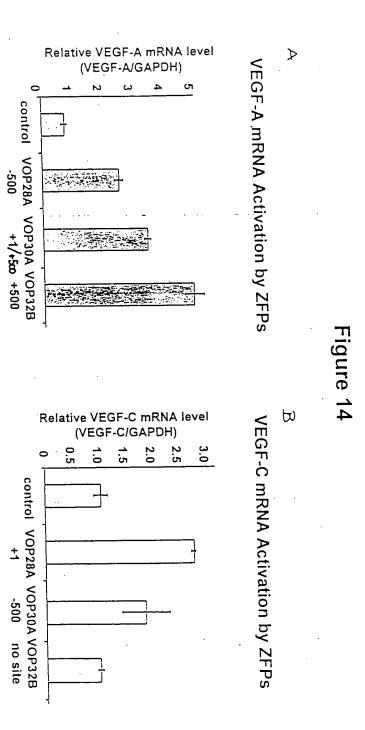
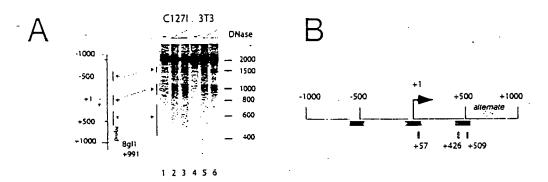


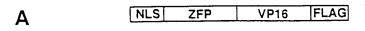
Figure 15

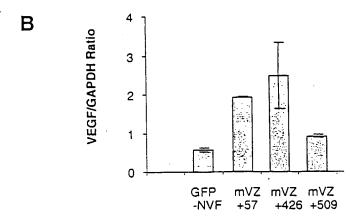


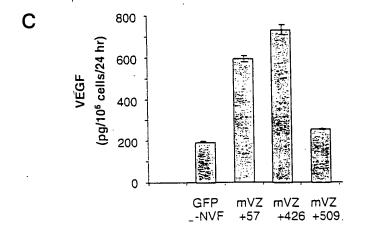
)	ZFP Nam e	Target		Finger	
		Sequence 5 - 3	Subsites 5 - 3'	Designs -1123456	
	±V2+57	TSAGCSGCCCAGCSGAGS	70% 60% 60% 60% 60% 60% 60%	QSGHLTK RSCELSA RSCELTA QSGSLTA RSCELGA RSCELGA RSCELGA	F6 F5 F4 F3 F2 F1
	±VZ+426	GOCCTGACE	9993 9993 9993	rschijr Tschivr Drschir	F3 F2 F1
	mV2+509	GCTGGGGGC4	6663 6663 6663	QS3MLTR RSDHLTR DRSHLTR	F3 F2 71

D	ZFP	Target	Gel Shift		pparent d (nM)
	mVZ+57	TGAGCGGCGGCAGCGGAGc		Bound Free	0.031
	mVZ+426	GGGGGTGACc		Bound Free	<0.01
	mVZ+509	GCTGGGGGCg		8ound Free	<0.01
	SP1	GGGGCGGGGg		8ound Free	0.053

Figure 16







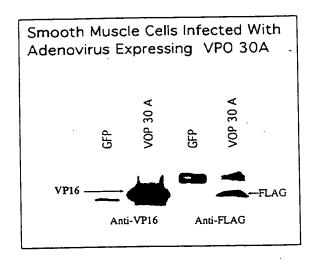


FIG. ITA

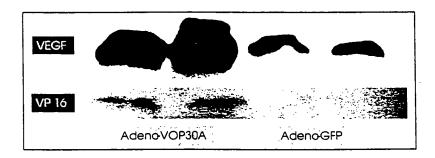


FIG. 17B

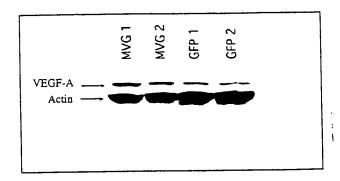


FIG. 17C

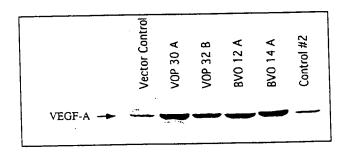


FIG. 17D

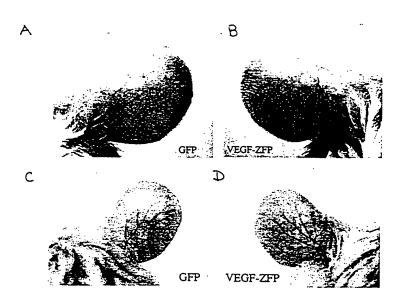


FIG. 18

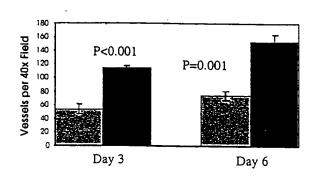
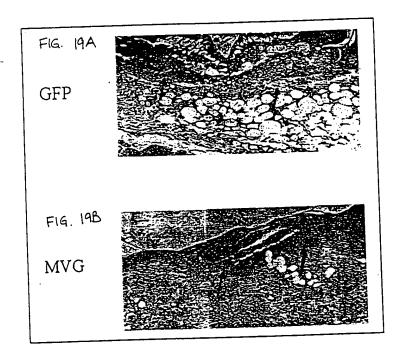


FIG. 18 E



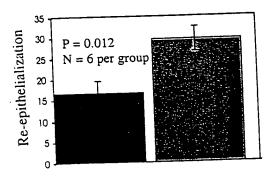
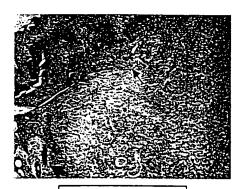


FIG. 19C



VEGF-ZFP (MVG)

FIG. 20A



GFP Control

FIG. 20B



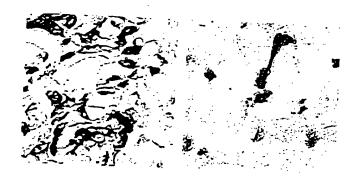
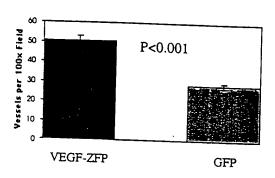


FIG. 21 A

F16. 21 B



F1G. 21C